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A DRY ICA TION NO	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
APPLICATION NO. 10/559.850	12/07/2005	Dov Ingman	2387.0020000 1962		
54089 DADDMESSE	7590 08/24/2007 R LAW GROUP, P.C.		EXAMINER		
910 17TH STR			LEUNG, QUYEN PHAN		
SUITE 800 WASHINGTON, DC 20006		/	ART UNIT	PAPER NUMBER	
W1011111010	,,, <u>20 2</u> 000		2874		
	•		MAIL DATE	DELIVERY MODE	
			08/24/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		Application No. Applica		Applicant(s)				
		10/559,850		INGMAN ET AL.				
		Examiner		Art Unit				
		Quyen P. Le	ung	2874				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS,								
WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1)	Responsive to communication(s) filed on	 ·						
,	This action is FINAL . 2b)⊠ This action is non-final.							
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Disposit	ion of Claims							
4)🖂	Claim(s) 45-62 is/are pending in the application							
-> 5 -7	4a) Of the above claim(s) is/are withdray	wn from cons	ideration.					
′=	5)⊠ Claim(s) <u>45-55</u> is/are allowed.							
•	Claim(s) <u>56-62</u> is/are rejected. Claim(s) is/are objected to.							
• —	Claim(s) are subject to restriction and/or	r election req	uirement.					
• •	ion Papers							
-	The specification is objected to by the Examine		objected to by the F	- - - - -				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority (under 35 U.S.C. § 119			•				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
	☐ All b)☐ Some * c)☐ None of:	. ,		· , · , · ,				
1. Certified copies of the priority documents have been received.								
2. Certified copies of the priority documents have been received in Application No								
3. Copies of the certified copies of the priority documents have been received in this National Stage								
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.								
* 3	See the attached detailed Office action for a list	of the certifie	a copies not receive	u.				
Attachmen			· • • •	(DTO 442)				
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da	ite				
3) Infor	mation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date)	atent Application				

DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 57-58, 62 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 57 recites the limitation "the first nano-particle material layer" in line 2.

Claim 58 recites the limitation "the first nano-particle material layer" in line 2.

There is insufficient antecedent basis for this limitation in the claim.

There is insufficient antecedent basis for this limitation in the claim.

Claim 62 recites the limitation "the first nano-particle material layer" in lines 1-2. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

⁽b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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Claims 56, 60 are rejected under 35 U.S.C. 102(b) as being anticipated by Cho et al (5,414,214). Cho discloses a substrate (220), a microfabricated device (225), and an intermediate layer (110), as claimed.

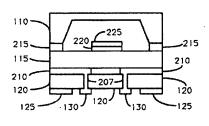


FIG. 2 205

Re claim 60, see col. 7 lines 55 through col. 8 line 3 for the substrate (220) being a ceramic material (ceramic mixture) or an optically transparent material (glass).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 61 is rejected under 35 U.S.C. 103(a) as being unpatentable over Cho et al, as applied above. Cho et al has been discussed except for the intermediate layer comprising an optically transparent material. See col. 4 lines 34-42 for the materials of the intermediate layer (110) taught by Cho et al. Examiner takes Official Notice that these materials are well-known. Lacking any stated criticality, it would have been an

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obvious design choice to use an intermediate layer comprising an optically transparent material.

Allowable Subject Matter

Claims 45-55 are allowed.

Claims 57-59, 62 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: The cited prior art fail to teach or fairly suggest an integrated circuit and nano particle material adjacent thereto (claim 45) or a photonic device and a nano-particle material enclosed between a lid and an enclosure with an opening (claim 51).

Lester (5,777,433) and Mueller et al (6,870,311) teach light emitting devices whose packages utilize nanoparticles, but not integrated circuits or the enclosure as claimed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Quyen P. Leung whose telephone number is (571) 272-8188. The examiner can normally be reached on normally M-F, 6:15 am - 2:45 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rodney Bovernick can be reached on (571) 272-2344. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Quyen Leung/ Quyen Leung Primary Patent Examiner Group Art Unit 2874

qpl